

AMENDMENTS TO THE CLAIMS

IN THE CLAIMS:

1. (Currently Amended) An optical transmission line comprising:
an optical transmission fiber having a chromatic dispersion of +4 to +10 $\text{ps}\cdot\text{nm}^{-1}$
 $\cdot\text{km}^{-1}$ and a dispersion slope of 0 to 0.04 $\text{ps}\cdot\text{nm}^{-2}\cdot\text{km}^{-1}$ at the 1550 nm wavelength and
installed in a relay section; and
a module made of a dispersion compensating optical fiber having a chromatic
dispersion of -40 $\text{ps}\cdot\text{nm}^{-1}\cdot\text{km}^{-1}$ or less and a dispersion slope of -0.10 $\text{ps}\cdot\text{nm}^{-2}\cdot\text{km}^{-1}$ or less
at the 1550 nm wavelength,
wherein an average chromatic dispersion of the optical transmission line is not
less than -0.1 ps/nm/km and not more than 0.1 ps/nm/km from 1.5 μm to 1.6 μm
inclusive.

2. (Original) An optical transmission line according to claim 1, wherein said
optical transmission fiber as a dispersion slope of +0.01 to +0.03 $\text{ps}\cdot\text{nm}^{-2}\cdot\text{km}^{-1}$.

3. (Original) An optical transmission line according to claim 1, wherein said
optical transmission fiber has an effective area of 45 μm^2 or more at the 1550 nm
wavelength.

4. (Original) An optical transmission line according to claim 1, wherein said dispersion compensating optical fiber has a chromatic dispersion of $-80 \text{ ps} \cdot \text{nm}^{-1} \cdot \text{km}^{-1}$ or less and a dispersion slope of $-0.20 \text{ ps} \cdot \text{nm}^{-2} \cdot \text{km}^{-1}$ or less.

5. (Original) An optical transmission line according to claim 4, wherein said dispersion compensating optical fiber has a chromatic dispersion of $-100 \text{ ps} \cdot \text{nm}^{-1} \cdot \text{km}^{-1}$ or less.

6. (Original) An optical transmission system comprising:
an optical transmission fiber having a chromatic dispersion of +4 to $+10 \text{ ps} \cdot \text{nm}^{-1} \cdot \text{km}^{-1}$ and a dispersion slope of 0 to $+0.04 \text{ ps} \cdot \text{nm}^{-2} \cdot \text{km}^{-1}$ at the 1550 nm wavelength and installed in a relay section;
a module made of a dispersion compensating optical fiber having a chromatic dispersion of $-40 \text{ ps} \cdot \text{nm}^{-1} \cdot \text{km}^{-1}$ or less and a dispersion slope of $-0.10 \text{ ps} \cdot \text{nm}^{-2} \cdot \text{km}^{-1}$ or less at the 1550 nm wavelength;
a transmitter; and
a receiver.

--7. (New) An optical transmission line according to claim 1, wherein an average chromatic dispersion of the optical transmission line is not less than -2 ps/nm/km and not more than 2 ps/nm/km from $1.45 \mu\text{m}$ to $1.65 \mu\text{m}$ inclusive.

8. (New) An optical transmission line according to claim 1,

09/776,720

Original

wherein loss of said module at the 1550 nm wavelength is not more than 3dB